

PCBD1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9111c

Specification

PCBD1 Antibody (Center) - Product Information

Application	FC, WB, IHC-P,E
Primary Accession	P61457
Other Accession	P61459 , Q3ZBD3
Reactivity	Human, Mouse
Predicted	Bovine, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	12000
Antigen Region	11-37

PCBD1 Antibody (Center) - Additional Information

Gene ID 5092

Other Names

Pterin-4-alpha-carbinolamine dehydratase, PHS, 4-alpha-hydroxy-tetrahydropterin dehydratase, Dimerization cofactor of hepatocyte nuclear factor 1-alpha, DCoH, Dimerization cofactor of HNF1, Phenylalanine hydroxylase-stimulating protein, Pterin carbinolamine dehydratase, PCD, PCBD1, DCOH, PCBD

Target/Specificity

This PCBD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 11-37 amino acids from the Central region of human PCBD1.

Dilution

FC~~1:10~50

WB~~1:1000

IHC-P~~1:50~100

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PCBD1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PCBD1 Antibody (Center) - Protein Information

Name PCBD1

Synonyms DCOH, PCBD

Function Involved in tetrahydrobiopterin biosynthesis (By similarity). Seems to both prevent the formation of 7-pterins and accelerate the formation of quinonoid-BH2. Coactivator for HNF1A-dependent transcription (By similarity). Regulates the dimerization of homeodomain protein HNF1A and enhances its transcriptional activity (By similarity). Also acts as a coactivator for HNF1B-dependent transcription (PubMed:[24204001](#)).

Cellular Location

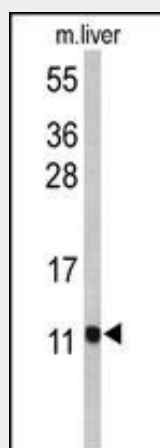
Cytoplasm. Nucleus. Note=Recruited to the nucleus through the interaction with HNF1B.

PCBD1 Antibody (Center) - Protocols

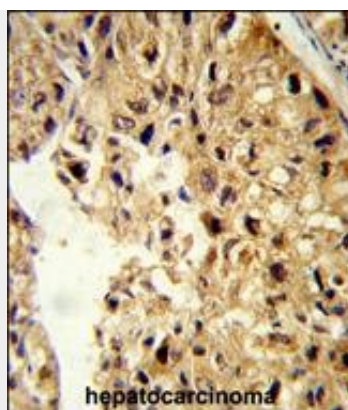
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

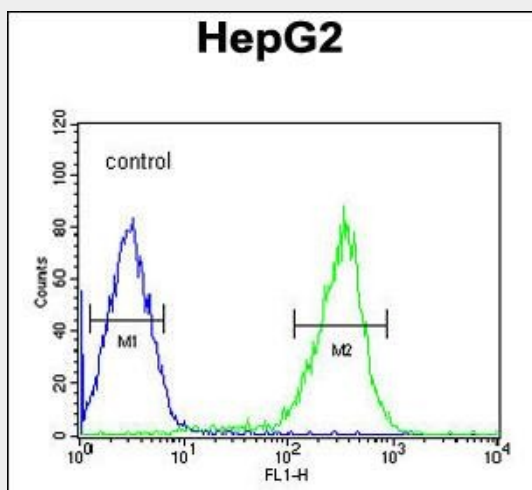
PCBD1 Antibody (Center) - Images



Western blot analysis of PCBD1 Antibody (Center) (Cat. #AP9111c) in mouse liver tissue lysates (35ug/lane). PCBD1 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with PCBD1 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



PCBD1 Antibody (Center) (Cat. #AP9111c) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

PCBD1 Antibody (Center) - Background

PCBD1 encodes pterin-4 alpha-carbinolamine dehydratase, an enzyme involved in phenylalanine hydroxylation. A deficiency of this enzyme leads to hyperphenylalaninemia. The enzyme regulates the homodimerization of the transcription factor hepatocyte nuclear factor 1 (HNF1).

PCBD1 Antibody (Center) - References

Schnetz-Boutaud, N.C., et.al., Genes Brain Behav. 8 (8), 753-757 (2009)
Clot, F., et.al., Brain 132 (PT 7), 1753-1763 (2009)